

1. A system for generating power from a fuel cell and a gas turbine engine, comprising:

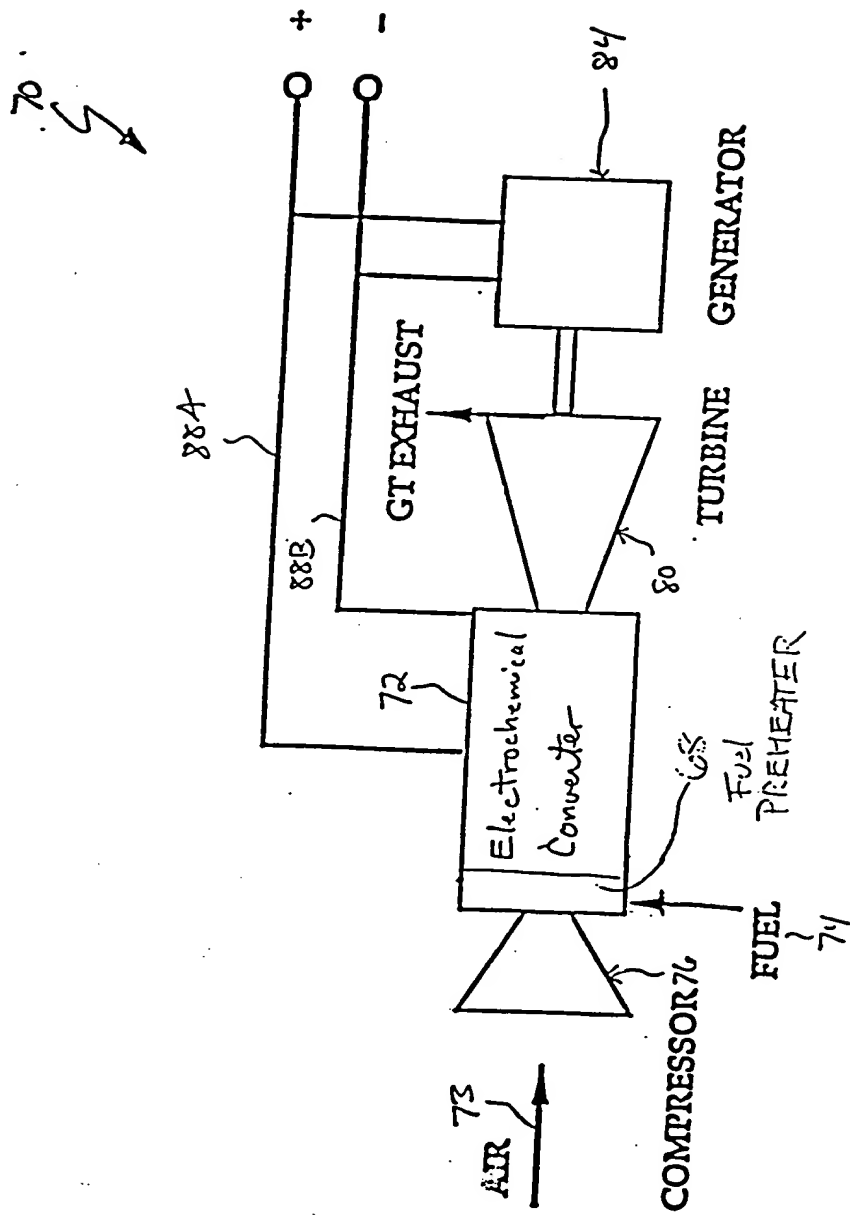


FIG. 1

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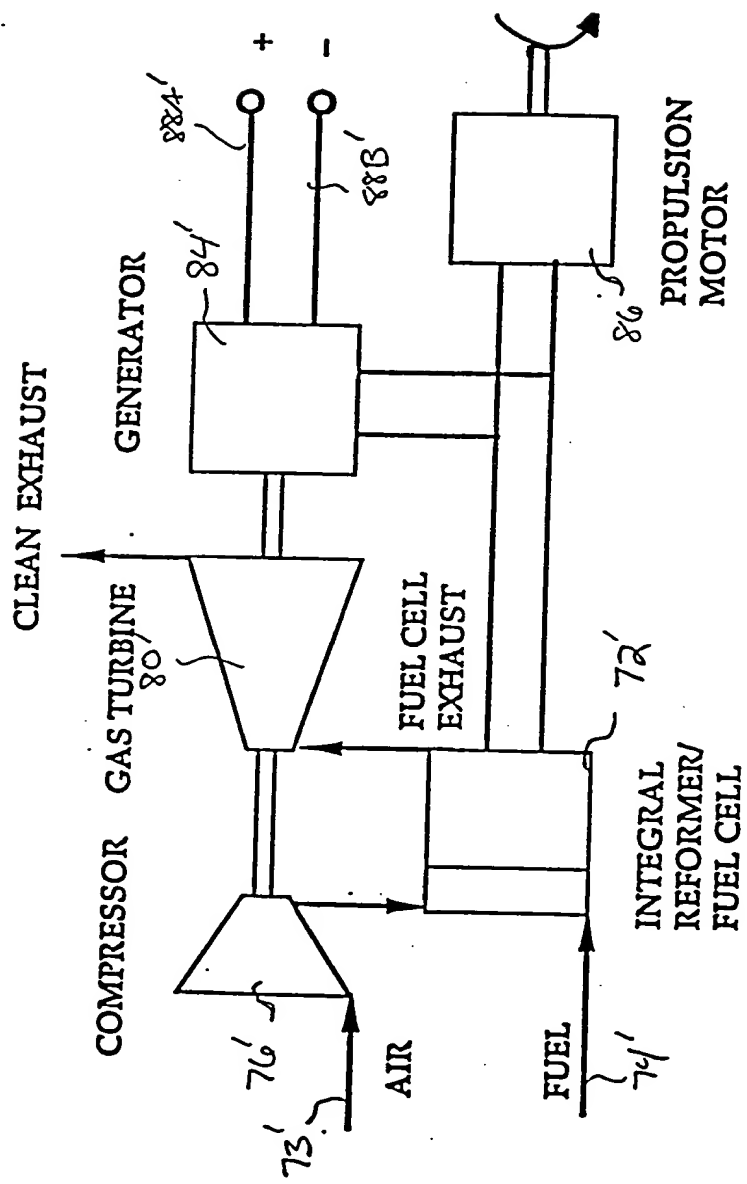


FIG. 2

FIG. 3 is a schematic diagram of a combined cycle power plant system.

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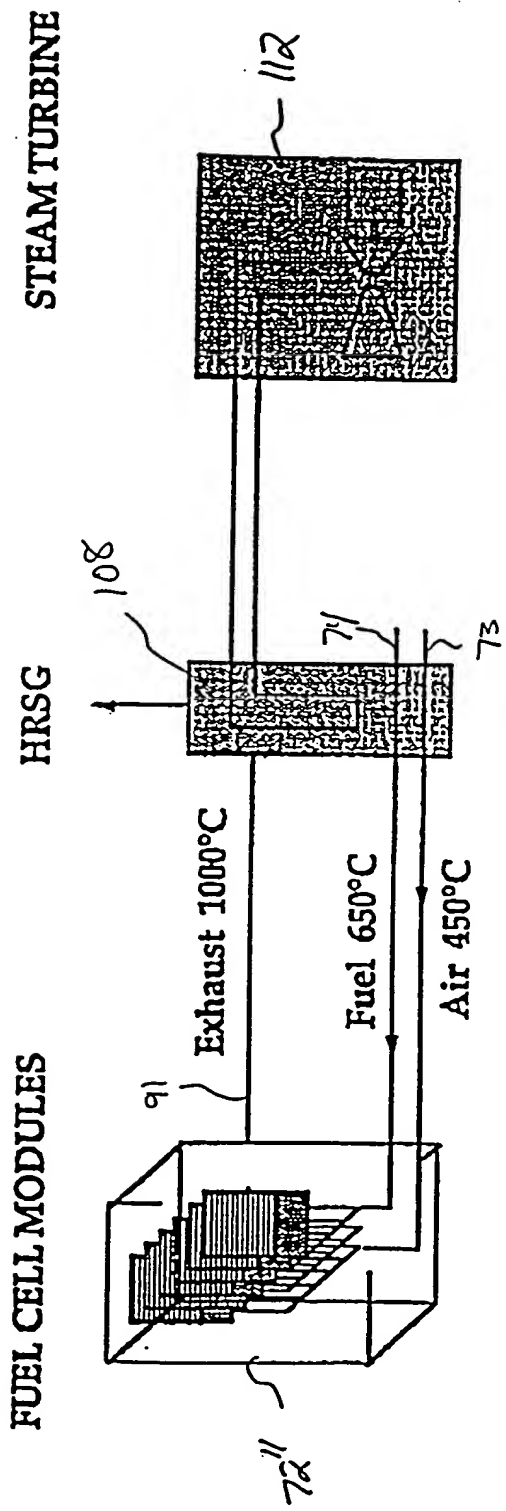


FIG. 3

FIG. 4 is a schematic diagram of a combined cycle power plant system. The system includes a fuel cell loop and a bottoming cycle. The fuel cell loop (76") receives air (73) as a reactant and produces a gas stream (72") which is then used in a regenerator (74). The regenerator (74) also receives natural gas (71) and water (102) for reforming. The regenerator (74) produces a gas stream (72") which is then used in a natural gas combustor (104). The natural gas combustor (104) produces a gas stream (72") which is then used in a gas turbine (80"). The gas turbine (80") is connected to a generator (84"). The gas turbine (80") also produces a gas stream (72") which is then used in a steam generator (108). The steam generator (108) produces a gas stream (72") which is then used in a steam turbine (112'). The steam turbine (112') is connected to a generator (84"). The system is powered by a fuel cell loop (76") and a bottoming cycle (80").

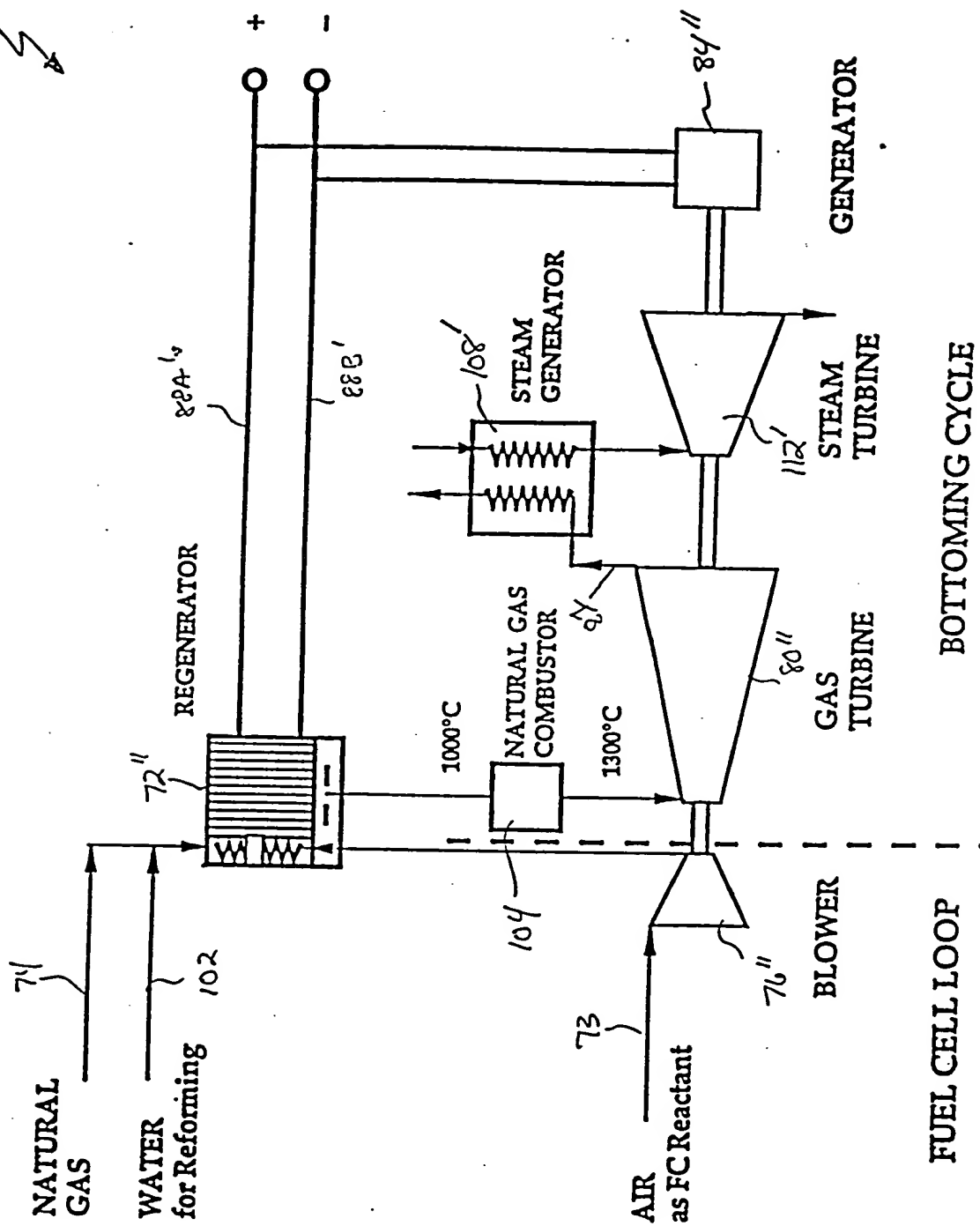


FIG. 4

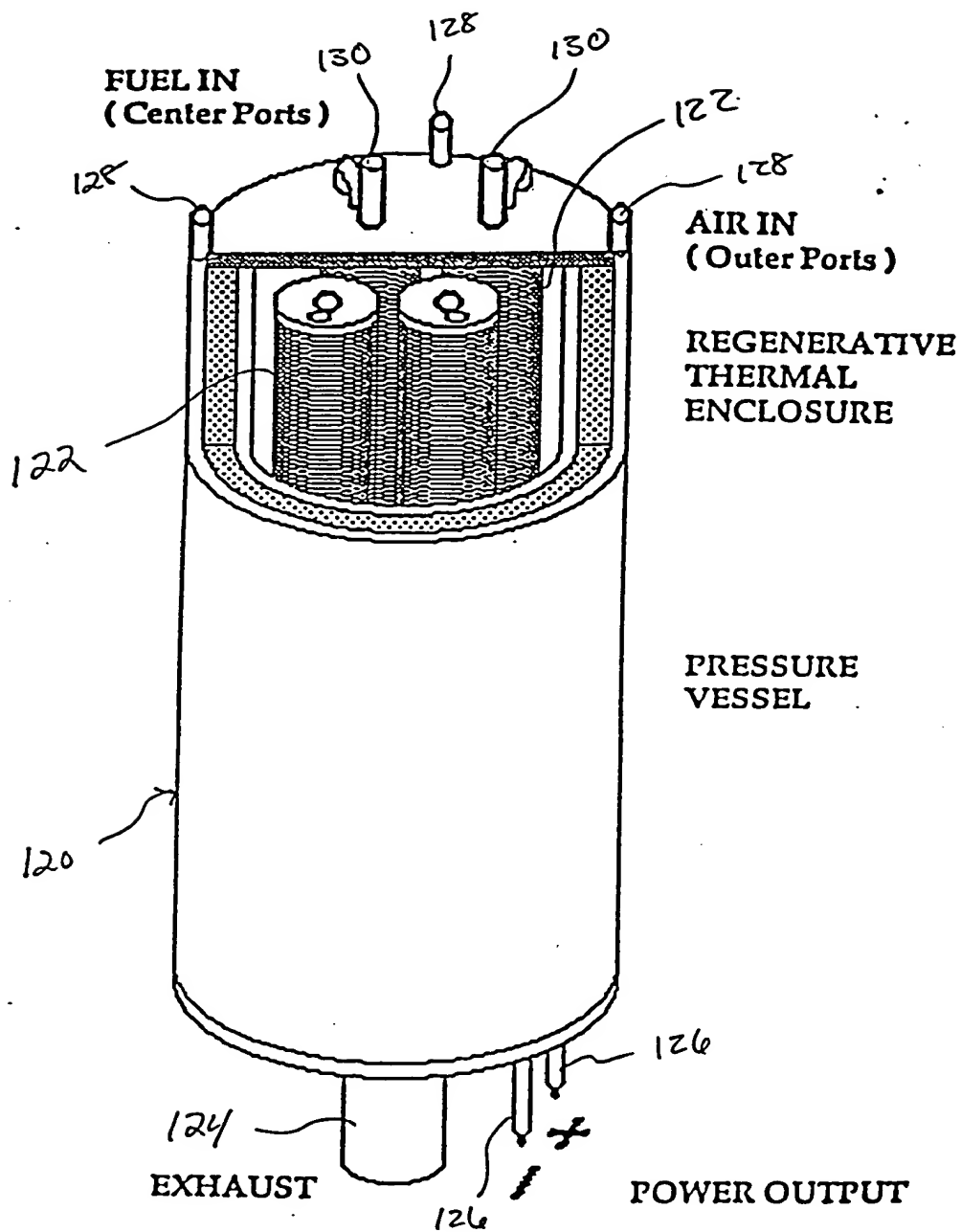


FIG. 5

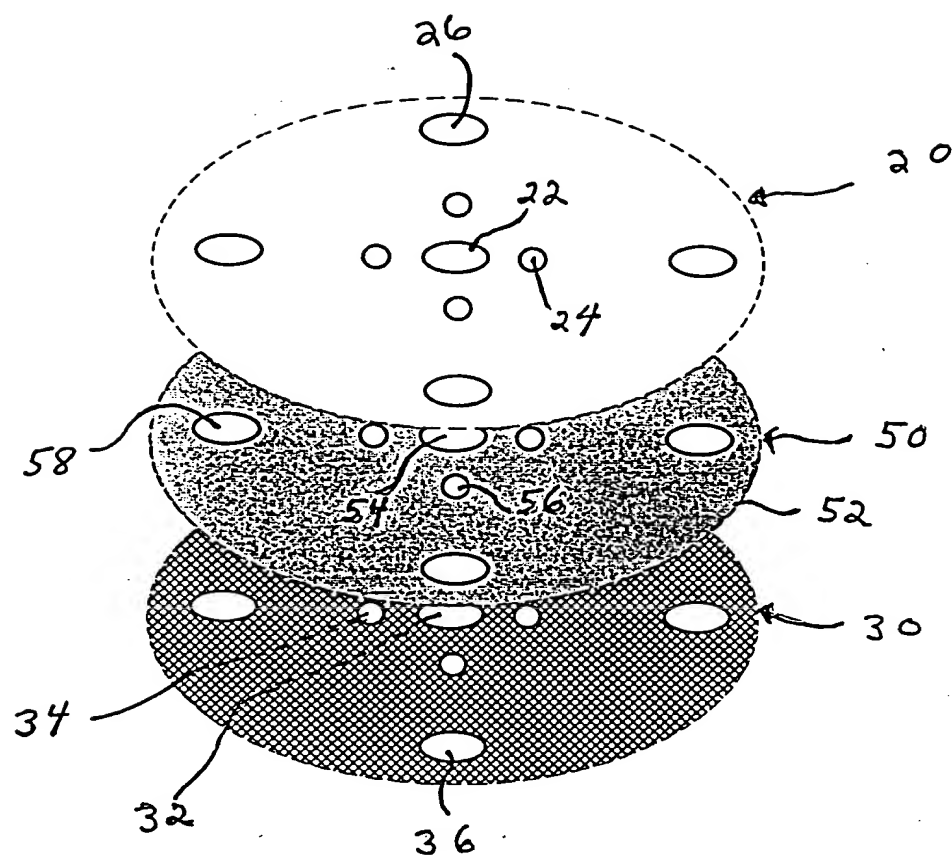


FIG. 7

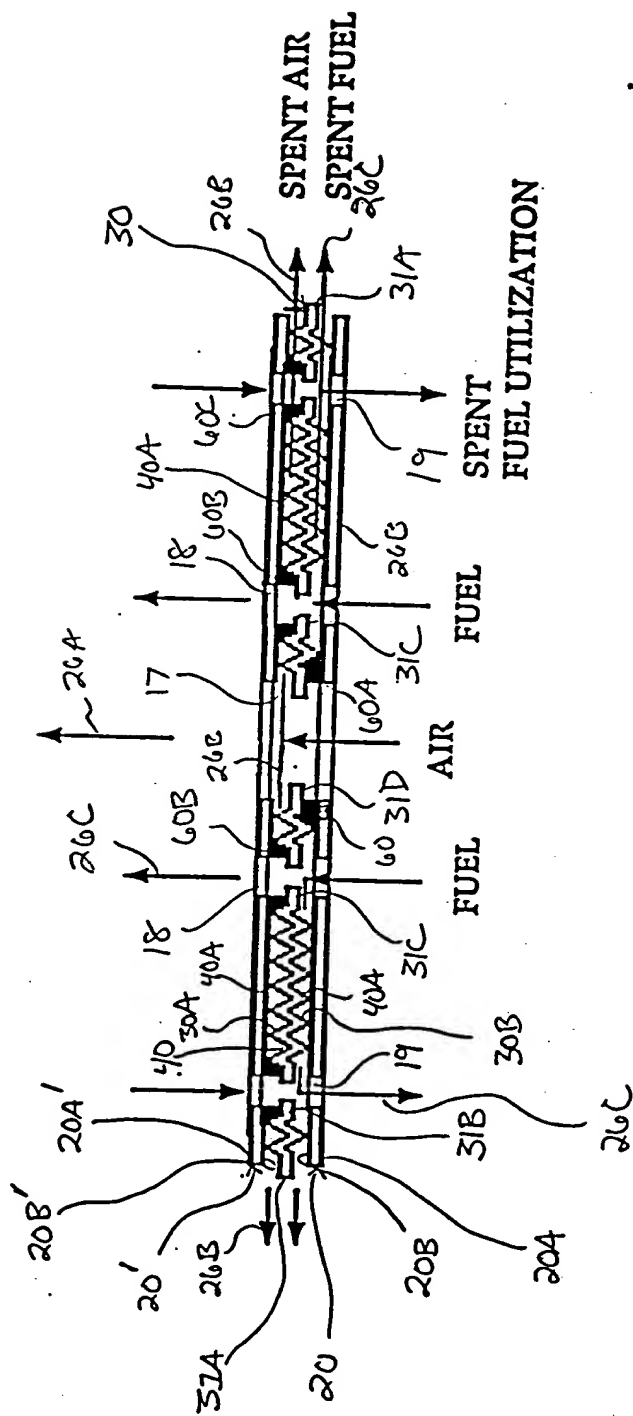
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FIG. 8